**SYNOPSIS**

**ON**

**MEDICAL STORE MANAGEMENT**

**SYSTEM**

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**Introduction of the Project**

The "Medical Store Management System" has been developed for the particular need of a medical store to carry out operations in a smooth and effective manner. The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus by this all it proves it is user-friendly. Medical Store Management System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources.

Every organization, whether big or small, has challenges to overcome and managing the information of Medicines, Medical Shop, Company, Sells, Inventory. Every Medical

Shop Management System has different medical needs, therefore I have designed an exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with the right level of information and details for your future goals. This system will ultimately allow you to better manage resources.

**Abstract of the Project**

The purpose of Medical Store Management System is to automate the existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with. Medical Store Management System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utlisation of resources.

The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information. The aim is to automate its existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically the project describes how to manage for good performance and better services for the clients.

**Existing System of Medical Shop Management System:**

* In the existing system the exams are done only manually but in proposed system we have to computerize the exams using this application.
* Lack of security of data.
* More man power.
* Time consuming.
* Consumes large volume of pare work.
* Needs manual calculations.
* No direct role for the higher officials

**Proposed System of Medical Shop Management System:**

The aim of proposed system is to develop a system of improved facilities. Theproposed system can overcome all the limitations of the existing system.

* The system provides proper security and reduces the manual work.
* Security of data.
* Ensure data accuracy's.
* Proper control of the higher officials.
* Minimize manual data entry.
* Minimum time needed for the various processing.
* Greater efficiency.
* Better service.
* User friendliness and interactive.
* Minimum time required.

**Functionalities provided by Medical Store Management System**

* Provides the searching facilities based on various factors. Such as medical store, stocks, company and inventory.
* Medical Store Management System also manages the sales details online for company details, inventory details, medical store.
* It tracks all the information of medicines, stock, company, etc.
* Keep record of staff working in the store.
* Manage the information of Medicines
* Shows the information and description of the Medical Shop and stock.
* To increase efficiency of managing the Medical Shop, medicines.
* Manage the information of the medical store.
* Editing, adding and updating of Records is improved which results in proper resource management of Medical Shop data.
* Maintain a bill of the order of medicines.

**Scope of the project**

**It may help collecting perfect management in details. In a very short time, the collection will be obvious, simple and sensible. It will help a person to know the management of passed year perfectly and vividly. It also helps in current all works relative to Medical Shop Management System. It will be also reduced the cost of collecting the management and collection procedure will go on smoothly.**

**In computer system the person has to fill the various forms and number of copies of the forms can be easily generated at a time.**

* **To assist the staff in capturing the effort spent on their respective working areas.**
* **To utilize resources in an efficient manner by increasing their productivity through automation.**
* **The system generates types of information that can be used for various purposes.**
* **It satisfy the user requirement**
* **Easy to understand by the user and operator**
* **Easy to operate**
* **Has a good user interface**
* **Expandable**

**HARDWARE USED:-**

* **Pentium(R) Dual-Core**
* **RAM - 4 GB**
* **Hard disk- 1 TB**
* **Keyboard**
* **Mouse**

**SOFTWARE USED:-**

* **Operating System- Windows 10**
* **Developing Tool- Python(IDLE 3.8.5)**

**Concept Used:-**

**File handling using csv files in python**

**Modules Used in Python:-**

* **pandas :-** Pandas is an open source Python package that is most widely used data analysis and manipulation.
* **matplotlib.pyplot :-** matplotlib.pyplot is a collection of functions that make matplotlib work like MATLAB. Each pyplot function makes some change to a figure: e.g., creates a figure, creates a plotting area in a figure, plots some lines in a plotting area, decorates the plot with labels, etc.

**WHY CHOOSE PYTHON?**

**Simple :**

Python is Easy to write and more readable and eye catching. It has a concise, cohesive set of features that makes it easy to learn and use.

**Secure :**

Python program cannot harm other system thus making it secure. It provides a secure means of creating Internet applications.

It provides secure way to access web applications.

**Portable :**

Python programs can execute in any environment for which there is a Python run-time system. Python programs can be run on any platform (Linux, Window, Mac, etc.)

Python programs can be transferred over world wide web (e.g. applets)

**Object-oriented :**

Python programming is object-oriented programming language.

Python is pure OOP. Language. (while C++ is semi object oriented)

**Robust :**

Java encourages error-free programming by being strictly typed and performing run-time checks.

**Multithreaded :**

Python provides integrated support for multithreaded programming.

**Architecture-neutral:-**

Python is not tied to a specific machine or operating system architecture.

Machine Independent i.e Python is independent of hardware .

**C SV Files Used:-**

**File for stock (Stock.csv) File for bill(Bill.csv)**

**File for staff (Staff.csv)**

**Features**

**Conclusion of the Project - Medical Shop Management System:**

This project is only a humble venture to satisfy the needs to manage their project work. Several user friendly coding have also adopted. The objective of software planning is to provide a frame work that enables the manger to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses.

**At the end, it is concluded that effort has been laid on the following points:-**

* A description of the background and context of the project and its relation to work already done in the area.
* Made statement of the aims and objectives of the project.
* The description of Purpose, Scope, and applicability.
* I define the problem on which I am working in the project.
* I describe the requirement specifications of the system and the actions that can be done on these things.
* I understand the problem domain and produce a model of the system, which describes operations that can be performed on the system.
* I have included features and operations in detail, including screen layouts.
* Finally the system is implemented and tested according to test cases.

**References and Bibliography :-**

* [**https://www.tutorialspoint.com/index.htm**](https://www.tutorialspoint.com/index.htm)
* **Computer Science class XII Python by Sumita Arora**
* [**https://techarge.in/tutorials**](https://techarge.in/tutorials)